

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows. A clean version of the claim set is attached.

1. (Currently Amended) A [[D]]device for gripping and transferring a ring of electrical conductors in the form of pins used to produce a pin winding, such as a winding for the stator of a rotating electrical machine stator,[[;]] the gripping device comprising:
~~is adapted to seize the ring in a first device for forming the ring, and to transfer the ring to a second device, such as by inserting the ring in the support element of the winding to be produced, of the type that includes a support element comprising, a frame having an axis, [[(13)]] and a number plurality of levers for gripping [[(15)]] the ring, wherein each of the plurality of levers comprises,~~
~~a control arm,~~
~~a gripping arm having an end element configured to grip the ring, and an intermediate section between the control arm and the gripping arm;~~
~~which are wherein the intermediate sections of the plurality of levers are pivotally mounted to pivot on the frame, the pivotal mounting comprising between a position for gripping the ring and a release position; away from the ring, and~~
~~common at least one control element[[s]] configured to for pivoting the levers (15) of the type in which the levers (15) are levers with two arms (16, 17), one of which (16) is the control arm, while the other arm (17) has at the end elements for gripping (42, 43) the ring; the levers (15) are mounted and pivot in the frame (13) through their intermediate section (18) located between the two arms (16, 17), characterized in that the control elements to pivot the plurality of levers, the at least one control element comprising: (15) include an element (19) in the form of a cone disposed coaxial to the frame, and having an outside peripheral surface [[(40)]] inclined relative in relation to the axis [[(X-X)]] of the frame,~~

wherein the at least one control element is configured to which can be moved axially move the cone in the frame; (13) under the effect of a control device (21) that moves the cone (19), and characterized in that

wherein the ends [[(38)]] of the control arms [[(16)]] of the plurality of levers [[(15)]] are maintained in support [[on]] against the inclined surface [[(40)]] of the cone;

wherein the plurality of levers pivot in response to so that the axial movement of the cone; and

wherein the gripping device is adapted to,

seize the ring in a first device for forming the ring, and

transfer the ring to a second device by inserting the ring in the support element of the winding

causes the levers to pivot.

2. (Currently Amended) The [[D]]device according to claim 1,

characterized in that wherein the ends [[(38)]] of the control arms [[(16)]] of the plurality of levers [[(16)]] are maintained in support against the inclined surface (40) of the lever pivot control cone (19) by an elastically stretchable seal (50) that can be stretched elastically, and

wherein the elastically stretchable seal is stretched and installed disposed in an annular groove coaxial to the frame, the coaxial groove being formed by notches [[(48)]] on an the surface of which is outside surface of the ends [[(38)]] of the control arms [[(16)]].

3. (Currently Amended) The [[D]]device according to claim 1 [[or 2]], characterized in that wherein the pivoting of the plurality of levers [[(15)]] are mounted and pivot through their intermediate section (18) located between the two arms (16, 17) is in a radial plane, and in that

wherein the ring is maintained by the plurality of levers [[(15)]] in a position coaxial to the frame [[(13)]].

4. (Currently Amended) The [[D]]device according to any of the preceding claims claim 1, characterized in that wherein the intermediate part (18) is sections are formed by [[the]] middle sections of the plurality of levers [[(15)]].

5. (Currently Amended) The [[D]]device according to any of the preceding claimsclaim 1, characterized in that

wherein the intermediate part (18)sections of the plurality of levers [[(15)]] is mounted inside a cavity having a, that is generally toroidal [[in]] form, and
wherein the cavity is delimited by annular parts (31, 130) belonging to of the frame, and
in that said parts present for each lever the annular parts having [[(15)]] a slot [[(33)]] for [[the]] passage of each of the control arms and the gripping arms (156, 17) of the plurality of levers [[(15)]].

6. (Currently Amended) The [[D]]device according to claim 5,

characterized in that said wherein the annular parts form a generally toroidal section, the generally toroidal section having a which is hollow inside, [[with]] and
wherein an internal surface [[(32, 132)]] of the hollow inside is at least partially curved along a circle arc such that so allow the rotation of the intermediate sections [[(18)]] of the plurality of levers (15) that have having spindles for this purpose is allowed.

7. (Currently Amended) The [[D]]device according to one of the preceding claimsclaim 1, characterized in that wherein at least some of the end elements [[(42)]] of the gripping arms [[(17)]] of the plurality of levers [[(15)]] have lateral pins, and
(43) that ensure wherein the lateral pins are configured to tightening of the straight prongs of the pins of the ring of electrical conductors [[(1)]] of the winding to be formed against a support surface [[(46)]] of the frame [[(13)]] when the plurality of levers [[(15)]] are in [[their]] a tightening position.

8. (Currently Amended) The [[D]]device according to claim 7, characterized in that wherein the end elements [[(42)]] of the gripping arms [[(17)]] of the plurality of levers [[(15)]] are configured to penetrate between the straight prongs [[(11)]] of the pins of the ring disposed, which are adjacent to a [[in the]] peripheral direction of the ring[[,]] when the plurality of levers [[(15)]] pivot into their are in the gripping position.

9. (Currently Amended) The [[D]]device according to one of the claim[[s]] 1 to 8, characterized in that it includes further comprising handling grips [[(52)]].

10. (Currently Amended) The [[D]]device according to one of the preceding claim[[s]] 1, characterized in that wherein the elements controlling the axial movement of the cone (19) are formed by control device comprises a cylinder [[(21)]] placed between the cone [[(19)]] and the frame [[(13)]].

11. (Currently Amended) The [[D]]device according to one of the claim[[s]] 1-to-10, characterized in that it includes further comprising predetermined positioning elements on the first [[(A)]] and second [[(B)]] devices, described above, which are advantageously made in the form of wherein the predetermined positioning elements are tubular elements configured to (55) or small columns designed to work with additional small columns (12, 64) or tubular elements installed on said devices (A, B).

12. (New) The device according to claim 1, further comprising predetermined positioning elements on the first and second devices,
wherein the predetermined positioning elements are small columns configured to work with tubular elements.